T02280 09879430

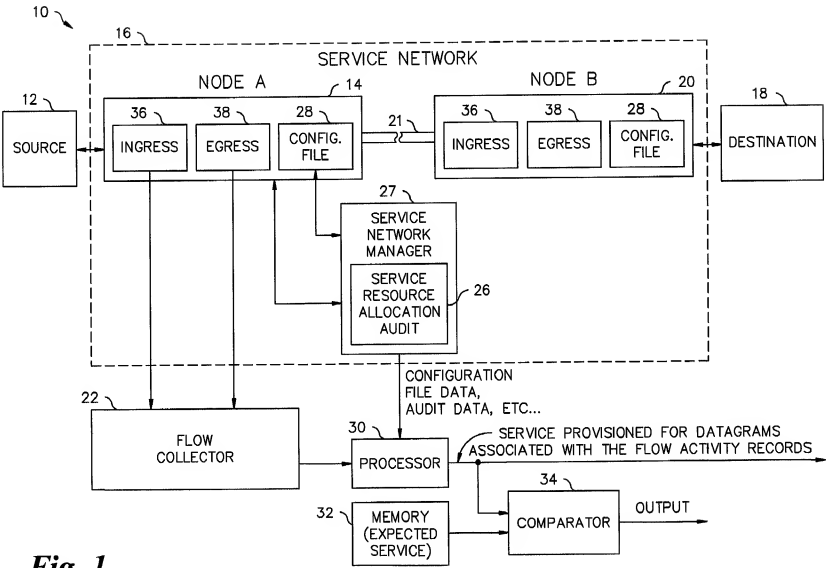

Fig. 1

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Title: Capture and Use of Service Identifiers and Service Labels in Flow Activity to... Activity
Inventor: Wm. Carter Bullard
Patent Application No. 09/879,430

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TIME STAMP DATA | FLOW ACTIVITY RECORDS

START TIME	END TIME OR DURATION	FLOW DESCRIPTOR	SERVICE IDENTIFIER	SERVICE PROVISIONED
t_1		fd_1	SI_{1i} , SI_{1e}	SP_{1i} , SP_{1e}
t_2		fd_2	SI_{2i} , SI_{2e}	SP_{2i} , SP_{2e}
⋮		⋮	⋮	⋮
t_n		fd_n	SI_{ni} , SI_{ne}	SP_{ni} , SP_{ne}

Fig. 2

TIME STAMP DATA | SERVICE RESOURCE ALLOCATION AUDIT (DYNAMIC SERVICE NETWORK)

START TIME	END TIME OR DURATION	SERVICE IDENTIFIER	SERVICE PROVISIONED
t_1		SI_1 SI_2 ⋮ SI_n	SP_1 SP_2 ⋮ SP_n
t_2		SI_1 SI_2 ⋮ SI_n	SP_1 SP_2 ⋮ SP_n
t_3		SI_1 SI_2 ⋮ SI_n	SP_1 SP_2 ⋮ SP_n

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Fig. 3
(Prior Art)

CONFIGURATION FILE
(NON–DYNAMIC SERVICE NETWORK)

SERVICE IDENTIFIER	SERVICE PROVISIONED
i_1	SP_1
i_2	SP_2
⋮	⋮
i_n	SP_n

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Fig. 4 (Prior Art)

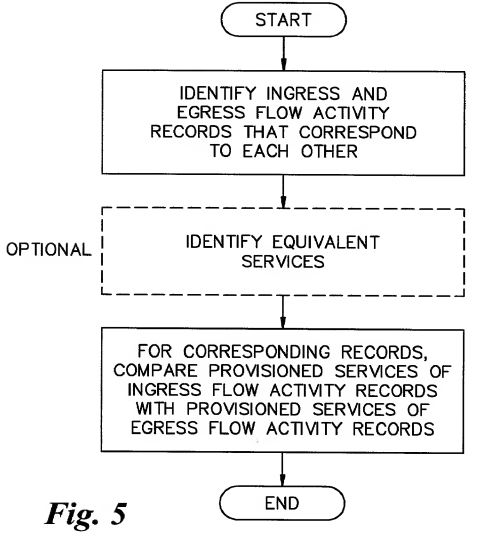

Fig. 5

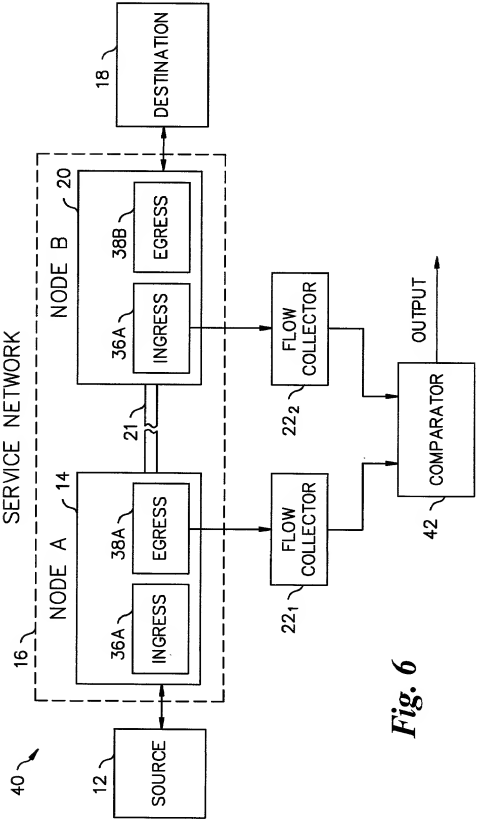
40
12
SOURCE
16
SERVICE NETWORK
NODE A
14
36A
INGRESS
38A
EGRESS
NODE B
20
36A
INGRESS
38B
EGRESS
21
18
DESTINATION
FLOW COLLECTOR
22₁
FLOW COLLECTOR
22₂
COMPARATOR
42
OUTPUT

Fig. 6

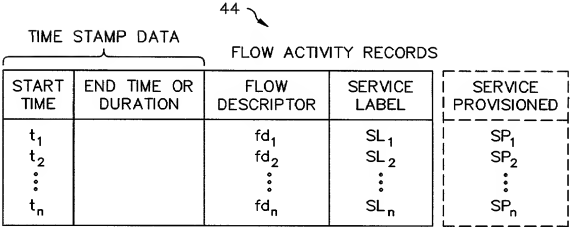

Fig. 7

SERVICE LABEL FILE
OF LOOKUP FACILITY

SERVICE LABEL	SERVICE PROVISIONED
SL_1	SP_1
SL_2	SP_2
⋮	⋮
SL_n	SP_n

Fig. 8

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48
12
SOURCE
50
SERVICE NETWORK
NODE A
NODE B
NODE C
NODE D
36A
36B
36C
36D
18
DESTINATION
22_1
FLOW COLLECTOR
22_2
FLOW COLLECTOR
52
COMPARATOR
OUTPUT

Fig. 9

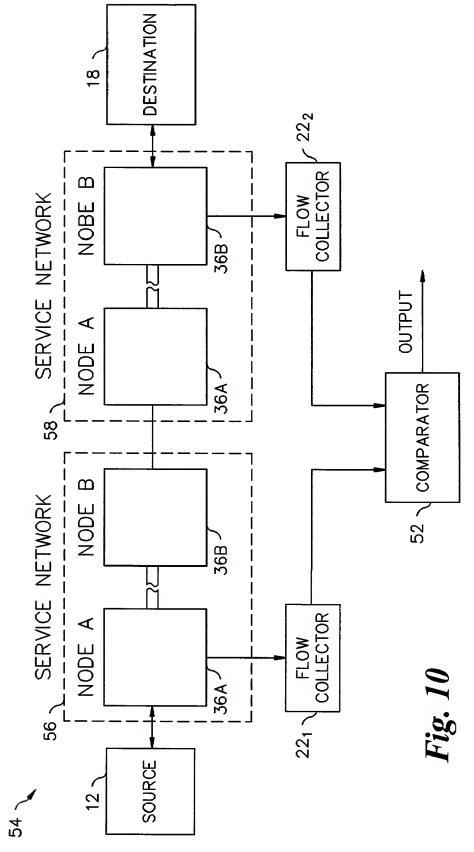
54
12
SOURCE
56
SERVICE NETWORK
NODE A
36A
NODE B
36B
58
SERVICE NETWORK
NODE A
36A
NODE B
36B
18
DESTINATION
22_1
FLOW COLLECTOR
22_2
FLOW COLLECTOR
52
COMPARATOR
OUTPUT

Fig. 10

60
16
SERVICE NETWORK
NODE A
NODE B
NODE C
12
SOURCE
14
36
INGRESS
38
EGRESS
28
CONFIG. FILE
62
64
21
18
DESTINATION
20
26
SERVICE NETWORK MANAGER
SERVICE RESOURCE ALLOCATION AUDIT
27
30
PROCESSOR
32
MEMORY (EXPECTED SERVICE)
34
COMPARATOR
OUTPUT
SERVICE PROVIDED FOR DATAGRAMS ASSOCIATED WITH THE FLOW ACTIVITY RECORDS
22
FLOW COLLECTOR (CORRELATED OR MERGED)
22A
FLOW COLLECTOR
22C
FLOW COLLECTOR

Fig. 11